

**West Virginia Department of Environmental Protection**

*Austin Caperton  
Cabinet Secretary*

# **Title V Operating Permit Revision**



## **For Minor Modification Permitting Action Under 45CSR30 and Title V of the Clean Air Act**

**Permit Action Number:** MM02 **SIC:** 3312  
**Name of Permittee:** Mountain State Carbon, LLC  
**Facility Name/Location:** Follansbee Plant  
**County:** Brooke  
**Facility Address:** 1851 Main Street, Follansbee, WV 26037

**Description of Permit Revision:**

This modification is for increasing the permitted throughput of crude coal tar loaded out from six million gallons to sixteen million gallons per year. These changes were approved under R13-1652B. On April 3, 2019, Mountain State Carbon LLC filed a request (through R13-1652C) to omit the term "rail cars" from the description on Emission Unit ID P021-22A, since this station may only accept tanker trucks. This change was also incorporated in this permit.

**Title V Permit Information:**

**Permit Number:** R30-00900002-2015  
**Issued Date:** August 13, 2015  
**Effective Date:** August 27, 2015  
**Expiration Date:** August 13, 2020

**Directions To Facility:** One mile north of Follansbee on West Virginia Route 2 along the eastern bank of the Ohio River

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THIS PERMIT REVISION IS ISSUED IN ACCORDANCE WITH THE WEST VIRGINIA AIR POLLUTION CONTROL ACT (W.VA. CODE §§ 22-5-1 ET SEQ.) AND 45CSR30 - "REQUIREMENTS FOR OPERATING PERMITS." THE PERMITTEE IDENTIFIED AT THE FACILITY ABOVE IS AUTHORIZED TO OPERATE THE STATIONARY SOURCES OF AIR POLLUTANTS IDENTIFIED HEREIN IN ACCORDANCE WITH ALL TERMS AND CONDITIONS OF THIS PERMIT.

A handwritten signature in blue ink, appearing to read "Laura M. Crowder".

Laura M. Crowder  
Acting Director, Division of Air Quality

April 30, 2019  
Date Issued

## 1.2. Active R13, R14, and R19 Permits

The underlying authority for any conditions from R13, R14, and/or R19 permits contained in this operating permit is cited using the original permit number (e.g. R13-1234). The current applicable version of such permit(s) is listed below.

Permit Number	Date of Issuance
R13-0090	July 12, 1974
R13-1652AC	<del>March 10, 2016</del> April 8, 2019
R13-1939B	September 23, 2015
R13-2591E	September 22, 2015
R13-2632A	September 23, 2015
R13-2772	September 17, 2008
R13-2548B	September 22, 2015

- 3.4.4. In accordance with the permittee's current 45CSR10 Monitoring Plan, the permittee will maintain sulfur content statements on-site for a period of at least five (5) years in accordance with 45CSR10A, Section 7. The permittee will submit a "Monitoring Summary Report" and an "Excursion and Monitoring Plan Performance Report" on a quarterly basis to the Director by the 30<sup>th</sup> day of the month following the calendar quarter. The permittee's 45CSR10 Monitoring Plan is attached in Appendix A.  
[45CSR§10-8.3., Batteries #1, #2, #3, and #8, Boilers #6, #7, #8, #9 and #10, By-Product Plant]

### 3.5. Reporting Requirements

- 3.5.1. **Responsible official.** Any application form, report, or compliance certification required by this permit to be submitted to the DAQ and/or USEPA shall contain a certification by the responsible official that states that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.  
[45CSR§§30-4.4. and 5.1.c.3.D.]
- 3.5.2. A permittee may request confidential treatment for the submission of reporting required under 45CSR§30-5.1.c.3. pursuant to the limitations and procedures of W.Va. Code § 22-5-10 and 45CSR31.  
[45CSR§30-5.1.c.3.E.]
- 3.5.3. Except for the electronic submittal of the annual certification to the USEPA as required in 3.5.5. below, all notices, requests, demands, submissions and other communications required or permitted to be made to the Secretary of DEP and/or USEPA shall be made in writing and shall be deemed to have been duly given when delivered by hand, mailed first class or by private carrier with postage prepaid to the address(es) set forth below or to such other person or address as the Secretary of the Department of Environmental Protection may designate:

#### If to the DAQ:

Director  
WVDEP  
Division of Air Quality  
601 57<sup>th</sup> Street SE  
Charleston, WV 25304

Phone: 304/926-0475  
FAX: 304/926-0478

#### If to the US EPA:

[Section Chief](#)  
[Associate Director](#)  
[Office of Air Enforcement and Compliance](#)  
[Assistance \(3AP20\)](#)  
U. S. Environmental Protection Agency,  
Region III  
[Enforcement and Compliance Assurance](#)  
[Division Air Section \(3ED21\)](#)  
1650 Arch Street  
Philadelphia, PA 19103-2029

- 3.5.4. **Certified emissions statement.** The permittee shall submit a certified emissions statement and pay fees on an annual basis in accordance with the submittal requirements of the Division of Air Quality.  
[45CSR§30-8.]
- 3.5.5. **Compliance certification.** The permittee shall certify compliance with the conditions of this permit on the forms provided by the DAQ. In addition to the annual compliance certification, the permittee may be required to submit certifications more frequently under an applicable requirement of this permit. The

## 8.0 Source-Specific Requirements [By-Product Plant, Coke Oven Gas Flare (Group 009) and emission point ID(s) (C06, F29, F30, P34, P34A, Stacks 14 and 15)]

### 8.1. Limitations and Standards

8.1.1. Emissions from the coal tar loading stations (ID P021-22 and P021-22A), shall not exceed the following:

Pollutant	Hourly Rate for P021-22 (lb/hr)	Hourly Rate for P021-22A (lb/hr)	Combined Annual Emissions from both stations (ton/yr)
Benzene	<del>1.89</del> <u>2.06</u>	<del>1.89</del> <u>2.06</u>	<del>0.43</del> <u>1.23</u>
Toluene	<u>0.4246</u>	<u>0.4246</u>	<u>0.0927</u>
Xylenes	<u>0.0910</u>	<u>0.0910</u>	<u>0.0206</u>
Indene	<u>0.0708</u>	<u>0.0708</u>	<u>0.0205</u>
Naphthalene	<u>0.1719</u>	<u>0.1719</u>	<u>0.0411</u>
Styrene	0.04	0.04	<del>0.01</del> <u>0.03</u>

Emissions Rates based on temperature of the crude coal tar of no greater than 190° F.

[45CSR13, R13-1652, 4.1.1.]

8.1.2 For the purpose of satisfying compliance with the emission limits in Condition 8.1.1., the throughput of coal tar through each loading station shall not exceed 20,000 gallons per hour with an annual combined throughput not to exceed ~~6~~ sixteen (16) million gallons per year on a 12-month rolling total.

[45CSR13, R13-1652, 4.1.2.]

8.1.3 ~~Reserved~~ The permittee is permitted to loadout crude coal tar from only one of the loadout racks (P021-22 or P021-22A) at any given time.

[45CSR13, R13-1652, 4.1.3.]

8.1.4 The permitted facility must be constructed and operated in accordance with the plans and specifications filed in Permit Application R13-1652, R13-1652A, and any modifications, administrative updates, or amendments thereto. The Secretary may suspend or revoke a permit if the plans and specifications upon which the approval was based are not adhered to.

[45CSR13, R13-1652, 2.5.1.]

8.1.5 Maximum emissions to the atmosphere from the Excess Coke Oven Gas (COG) Flare (Emission Unit P024-1) shall not exceed the following limits:

Pollutant	Hourly Emissions (lb/hr)	Maximum Hourly Emissions during the Desulfurization Outage (lb/hr)	Annual Emissions* (tpy)
Carbon Monoxide	62.2	62.2	273.3
Nitrogen Oxides	11.4	11.4	50.1
Particulate Matter	2.0	2.0	8.8
PM-10	2.0	2.0	8.8
Sulfur Dioxide	39.8	396*	294.0
Volatile Organic Compounds	23.5	23.5	103.0

operation and COG was being emitted to the atmosphere at Emission Point P024-1. The permittee shall submit a report explaining this event and measures the permittee is taking to prevent the event from re-occurring. Such records shall be maintained on site for a period of at least five years and be made available to the Director or his/her duly authorized representative upon request.

[45CSR13, R13-1939, 4.1.17.]

- 8.1.19 The permittee shall continuously maintain a system around this permitted facility to prevent the general public from accessing the facility.

[45CSR13, R13-1939, 4.1.18.]

- 8.1.20 Compliance with the allowable emission limits stated in Section 8.1.5. shall be calculated using the appropriate amount of COG combustion by the excess COG flare on a volumetric basis, higher heat value of 568 Btu/cu. ft. for COG, and the following factors: Carbon Monoxide (0.37 lb/MM Btu), Nitrogen oxides (0.068 lb/MM Btu), Particulate Matter (0.012 lb/MM Btu), Particulate Matter 10 microns (0.012 lb/MM Btu), Volatile Organic Compounds (0.14 lb/MM Btu). The permittee shall determine the amount of each pollutant emitted on monthly basis using the above mentioned information and appropriate engineering calculations. The permittee shall keep a 12 month rolling total for each of above mentioned pollutants.

[45CSR13, R13-1939, 4.1.19.]

- 8.1.21 The following condition only applies when the permittee is conducting an approved planned maintenance outage as permitted in Section 8.1.10. In the event of unforeseen circumstance beyond the control of the permittee, the permittee may exceed the SO<sub>2</sub> emission limit for the flare as stated in Section 8.1.5. in order to prevent an anticipated excursion of the SO<sub>2</sub> NAAQS from occurring in the local area, which include the city of Weirton, WV. The permittee shall document in the Desulfurization System Outage Report the unforeseen circumstances, SO<sub>2</sub> emissions rate calculation, and modeling results to document the necessity of the temporary increase in the flare's SO<sub>2</sub> allowable emissions rate.

[45CSR13, R13-1939, 4.1.20.]

- 8.1.22 The permitted facility shall be constructed and operated in accordance with the plans and specifications filed in Permit Application R13-1939, R13-1939A, R13-1939B and any modifications, administrative updates, or amendments thereto. The Secretary ~~Director~~ may suspend or revoke a permit if the plans and specifications upon which the approval was based are not adhered to.

[45CSR13, R13-1939, 2.5.1.]

- 8.1.23 Incinerators, including all associated equipment and grounds, shall be designed, operated and maintained so as to prevent the emission of objectionable odors.

[45CSR§6-4.6., 45CSR13, R13-1939, 4.1.27.]

- 8.1.24 ~~Reserved~~ For the purposes of minimizing fugitive emissions, the permittee shall equip, maintain and use a double valve configuration to seal off the open-ended line of the loading arm of each loading rack when not engaged in loading out coal tar through the corresponding loadout rack.

[45CSR13, R13-1652, 4.1.4.]

- 8.1.25 Any owner or operator of a by-product coke production facility in existence on the effective date of 45CSR10 who can demonstrate to the Director that there is no practical alternative to scheduled maintenance (including shutdown) of desulfurization equipment may request the approval of an enforceable, temporary sulfur dioxide emissions control and mitigation plan for such maintenance period. In order for a plan under 45CSR§10-5. to be approved the plan must meet the following conditions: